

Amendments to the Claims:

1. (Previously presented) A front-end array process for making a liquid crystal display panel, comprising:

- 5 depositing a molybdenum-containing metal layer on a glass substrate;
 forming a patterned photoresist on said molybdenum-containing metal layer,
 wherein said patterned photoresist defines a gate and word line array pattern;
 and
 using said patterned photoresist as an etching mask, uniformly etching said
10 molybdenum-containing metal layer to form said gate and word line array
 pattern having substantially oblique sidewalls, wherein said etching of said
 molybdenum-containing metal layer uses gas mixture.

2. (Original) The front-end array process for making a liquid crystal display panel
15 according to claim 1 wherein after said etching of said molybdenum-containing metal
layer, an over etching is carried out.

3. (Previously presented) The front-end array process for making a liquid crystal
display panel according to claim 1 wherein fluorine/oxygen containing gas mixture is
20 SF_6/O_2 having a ratio of about 700sccm/300sccm.

4. (Original) The front-end array process for making a liquid crystal display panel
according to claim 1 wherein said etching of said molybdenum-containing metal layer
is executed under a process pressure higher than 25 mTorr.

25 5. (Original) The front-end array process for making a liquid crystal display panel
according to claim 1 wherein said etching of said molybdenum-containing metal layer
is further controlled by a source power, a bias power, process pressure, oxygen
flowrate and flowrate of fluorine containing gas.

30 6. (Original) The front-end array process for making a liquid crystal display panel

according to claim 1 wherein said molybdenum-containing metal layer is a dual-metal layer.

- 5 7. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 6 wherein said dual-metal layer is Mo/AlNd, MoW/AlNd, or MoW/Al, wherein Mo and MoW are top layers, while AlNd and Al are bottom layers.
- 10 8. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said etching of said molybdenum-containing metal layer is detected by an end-point detection method at an wavelength of about 704nm.
- 15 9. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/fluorine containing.
10. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/chlorine containing.
- 20 11. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is oxygen/chlorine/fluorine containing.
- 25 12. (Original) The front-end array process for making a liquid crystal display panel according to claim 1 wherein said gas mixture is SiF₆/O₂ containing.
- 30 13. (Currently amended) A front-end array process for making a liquid crystal display panel, comprising:
depositing a molybdenum-containing metal layer on a glass substrate;
forming a patterned photoresist and defining a gate and word line array pattern on said molybdenum-containing metal layer; and
etching said molybdenum-containing metal layer by using fluorine/oxygen containing gas mixture containing SF₆/O₂ with a ratio of about

700sccm/300sccm, and using said patterned photoresist as an etching mask
to form said gate and word line array pattern.

- 5 14. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said gate and word line array pattern have substantially oblique sidewalls.
- 10 15. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein after said etching of said molybdenum-containing metal layer, an over etching is carried out.
16. (Canceled)
- 15 17. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said etching of said molybdenum-containing metal layer is executed under a process pressure higher than 25 mTorr.
- 20 18. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said etching of said molybdenum-containing metal layer is detected by an end-point detection method at an wavelength of about 704nm.
- 25 19. (Original) The front-end array process for making a liquid crystal display panel according to claim 13 wherein said molybdenum-containing metal layer is a dual-metal layer.
- 30 20. (Previously presented) The front-end array process for making a liquid crystal display panel according to claim 19 wherein said dual-metal layer is Mo/AlNd, MoW/AlNd, or MoW/Al, wherein Mo and MoW are top layers, while AlNd and Al are bottom layers.